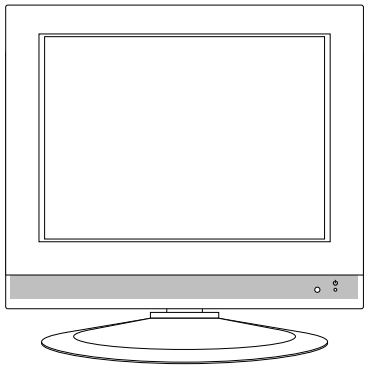
website:http://biz.LGservice.com
e-mail:http://www.LGEservice.com/techsup.html

LCD TV
SERVICE MANUAL

CHASSIS : ML-024A

MODEL : RZ-15LA32

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in **handling the Picture Tube**. Do not lift the Picture tube by it's Neck.

X-RAY Radiation

Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the Picture Tube.
For continued X-RAY RADIATION protection, the replacement tube must be the same type tube as specified in the Replacement Parts List.

To determine the presence of high voltage, use an accurate high impedance HV meter.

Adjust brightness, color, contrast controls to minimum.
Measure the high voltage.
The meter reading should indicate
23.5 ¡ 1.5KV: 14-19 inch, 26 ¡ 1.5KV: 19-21 inch,
29.0 ¡ 1.5KV: 25-29 inch, 30.0 ¡ 1.5KV: 32 inch
If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

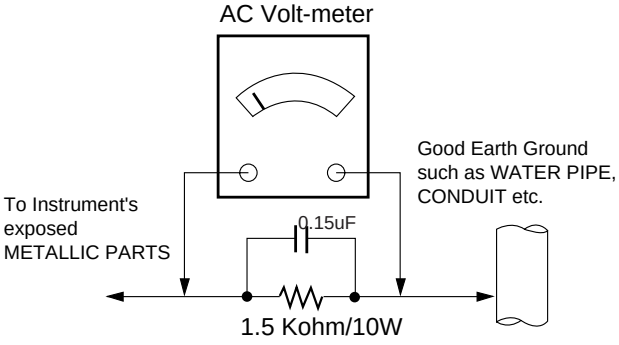
Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)
With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)
Plug the AC cord directly into the AC outlet.
Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.
NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
   a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
   b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
      CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
   d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".
3. Discharge the picture tube anode only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemicals on or near this receiver or any of its assemblies.
5. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in not required.
6. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
   Always remove the test receiver ground lead last.
9. *Use with this receiver only the test fixtures specified in this service manual.*
   CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices.* Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500 ¡ÆF to 600 ¡ÆF.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
   a. Allow the soldering iron tip to reach normal temperature. (500 ¡ÆF to 600 ¡ÆF)
   b. Heat the component lead until the solder melts.
   c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
      CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach a normal temperature (500 ¡ÆF to 600 ¡ÆF)
   b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.

c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
CAUTION: Work quickly to avoid overheating the circuit board printed foil.

d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATIONS

Note : Specification and others are subject to change without notice for improvement.

- **Receivable Broadcasting system:**
  PAL-B/G, D/K, I
  SECAM
  NTSC M

- **RF Input Channel:**
  VHF : E2 ~ E12
  UHF : E21 ~ E69
  CATV : S1 ~ S20
  HYPER : S21 ~ S41

- **Input Voltage :** 110~220V, 50/60Hz

- **Aspet Ratio :** 4:3

- **Power consumption :** Max 45W
  Stand-by 3W

- **Speaker impedance :** 8 ohm

- **External In/Output**
  Audio-In : 0.4V ± 0.1
  Video-In : 1Vpp ± 0.15
  S-Video-In(Y) : 1Vpp ± 0.15
  S-Video-In(C-Burst) : 0.286Vpp ± 0.030
  Component Video In(Y,C_B/P_B,C_R/P_R) : 0.7Vpp ± 0.1
  R,G,B In:0.7Vpp ± 0.1

- **Feature & Funtion**
  AV Input : 1(Rear)
  S-Video Input : 1(Rear)
  Component Input-option
  H/P Output : 1(Rear)
  RGB(VGA) INput : 1(D-sub 15 pin)
  Audio(R,L) Input : 1(1W+1W)
  PC Sound Input : 1
  DPM(Display Power Management)
  AVL
  ON/OFF Timer
  PSM
  SSM

Displayable Monitor Output Format Specifications

MODE	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
VGA	640x400	37.9KHz	85Hz
	640x480	31.5KHz	60Hz
	640x480	35.0KHz	67Hz
	640x480	37.9KHz	72Hz
	640x480	37.5KHz	75Hz
	640x480	43.3KHz	85Hz
SVGA	800x600	35.2KHz	56Hz
	800x600	37.9KHz	60Hz
	800x600	48.1KHz	72Hz
	800x600	46.9KHz	75Hz
	800x600	53.7KHz	85Hz
(MAC)	832x624	49.7KHz	75Hz
XGA	1024x768	48.4KHz	60Hz
	1024x768	56.5KHz	70Hz
	1024x768	60.2KHz	75Hz

Notes:

a. For optimum picture quality, use standard XGA (1024x768) computer output at a 60Hz refresh rate. Using other formats (i.e.: VGA, SVGA, etc) or refresh rates may result in reduced picture quality. (To change the computer video output format, please refer to the operating manual for the computer you are using).

b. If the message "OUT OF RANGE" appears on the screen, adjust the PC output to a format listed in the 'Displayable Monitor Output Format Specifications' chart above.

c. The synchronization input form for Horizontal and Vertical frequencies is separate.

DPM (Display Power Management) mode

When the PC is in the power saving mode, the monitor automatically switches to DPM mode.

DESCRIPTION OF CONTROLS

All the functions can be controlled with the remote control handset. Some functions can also be adjusted with the buttons on the side panel of the set.
Only the remote control handset supplied will operate this set.

Remote control handset

Before you use the remote control handset, please install the batteries. See the next page.

1. **POWER**
   switches the set on from standby or off to standby.

2. **NUMBER BUTTONS**
   switches the set on from standby or directly select a number.

3. **MENU**
   selects a menu.

4. **▲ / ▼ (Programme Up/Down)**
   selects a programme or a menu item.
   switches the set on from standby.
   ◄ / ► (Volume Up/Down)
   adjusts the volume.
   adjusts menu settings.
   OK
   accepts your selection or displays the current mode.

5. **Q.VIEW**
   returns to the previously viewed programme.

6. **I/II**
   selects the language during dual language broadcast.
   selects the sound output (option).

7. **PSM (Picture Status Memory)**
   recalls your preferred picture setting.

8. MUTE
switches the sound on or off.

9. TV/AV/PC
selects TV, AV or PC monitor mode.
clears the menu from the screen.
switches the set on from standby.

10. SLEEP
sets the sleep timer.

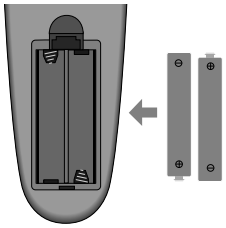
11. LIST
displays the programme table.

12. TELETEXT BUTTONS (option)
These buttons are used for teletext.
For further details, see the 'Teletext' section.

Note : *In teletext mode, the **SLEEP**, **LIST** and **Q.VIEW** buttons are used for teletext function.*

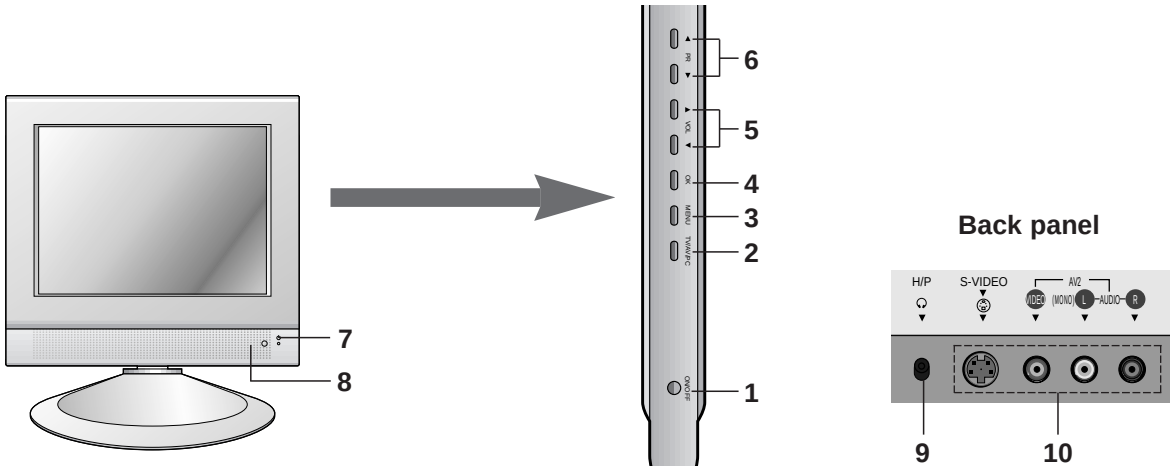
Battery installation

The remote control handset is powered by two AAA type batteries. To load the batteries, turn the remote control handset over and open the battery compartment. Install two batteries as indicated by the polarity symbols (⊕ and ⊖) marked inside the compartment.



Note : *To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time.*

Side panel



1. **MAIN POWER (ON/OFF)**
   switches the set on or off.

2. **TV/AV/PC**
   selects TV, AV or PC monitor mode.
   clears the menu from the screen.
   switches the set on from standby.

3. **MENU**
   selects a menu.

4. **OK**
   accepts your selection or displays the current mode.

5. **◄ / ► (Volume Up/Down)**
   adjusts the volume.
   adjusts menu settings.

6. **▲ / ▼ (Programme Up/Down)**
   selects a programme or a menu item.
   switches the set on from standby.

7. **POWER/STANDBY INDICATOR (⏻)**
   illuminates brightly when the set is in standby mode.
   dims when the set is switched on.

8. **REMOTE CONTROL SENSOR**

9. **HEADPHONE SOCKET**
   Connect the headphone plug to this socket.

10. **AUDIO/VIDEO IN SOCKETS (AV2)**
    Connect the audio/video out sockets of external equipment to these sockets.

    S-VIDEO/AUDIO IN SOCKETS (SAV)
    Connect the video out socket of an S-VIDEO VCR to the **S-VIDEO** socket.
    Connects the audio out sockets of the S-VIDEO VCR to the audio sockets as in **AV2**.

ADJUSTMENT INSTRUCTION

1. Application Object

This instruction is for the application to the LCD TV/Monitor, ML-024A.

2. Notes

(1) This LCD TV has power within set. Connect the power correctly, then start the adjustment.
(2) The adjustment must be performed under the correct sequence.
(3) The adjustment must be performed in the circumstance of 25±5˚C of temperature and 65±10% of relative humidity if there is no specific designation.
(4) The input voltage of the receiver must keep 100~220V, 50/60Hz in adjusting.
(5) The set must be operated for 15 minutes preliminarily before adjustment if there is no specific designation.

- 'Heat Run' must be performed with the full white signal or TV noise signal in the internal part of the set.
- The time for 'Heat Run' can be changed owing to production plan.
- Condition of Line Test : Standard color signal - 65±1dBuV

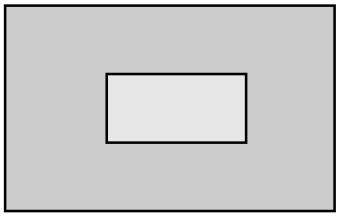
3. PC Mode Adjustment

3-1. Required Test Equipment

(1) Window Pattern which satisfied with VESA Spec. or pattern which has White-Black signal simultaneously.
(2) Remote control for adjustment

3-2. Preparation for Adjustment

(1) Perform 'Heat Run' for more than 15 minutes in white pattern.
(2) Connect the signal of pattern generator with LCD TV of PC Input Jack(D-Sub).
(3) Confirm the XGA(1024x768) Window Pattern or signal(White-Black) using the 801-GF/GD, VG819.
(4) Use the IN-START Key on R/C for adjustment to enter the PC adjustment mode.
(5) Example of adjustment screen.



<Fig. 1>

(6) Enter into the adjustment mode as <Fig. 1> and select the cursor(red letters) to "RGBSE ▶" with the channel key on R/C for adjustment.
(7) Press the Volume ▶ on R/C for adjustment.
(8) At this time the adjustment starts automatically changing the number in order of RO --> GO --> BO --> RD --> GD --> BD.
Finally, when the number of BD is changed the adjustment is completed.
(9) Press the MENU or EXIT key to come out of the adjustment mode.

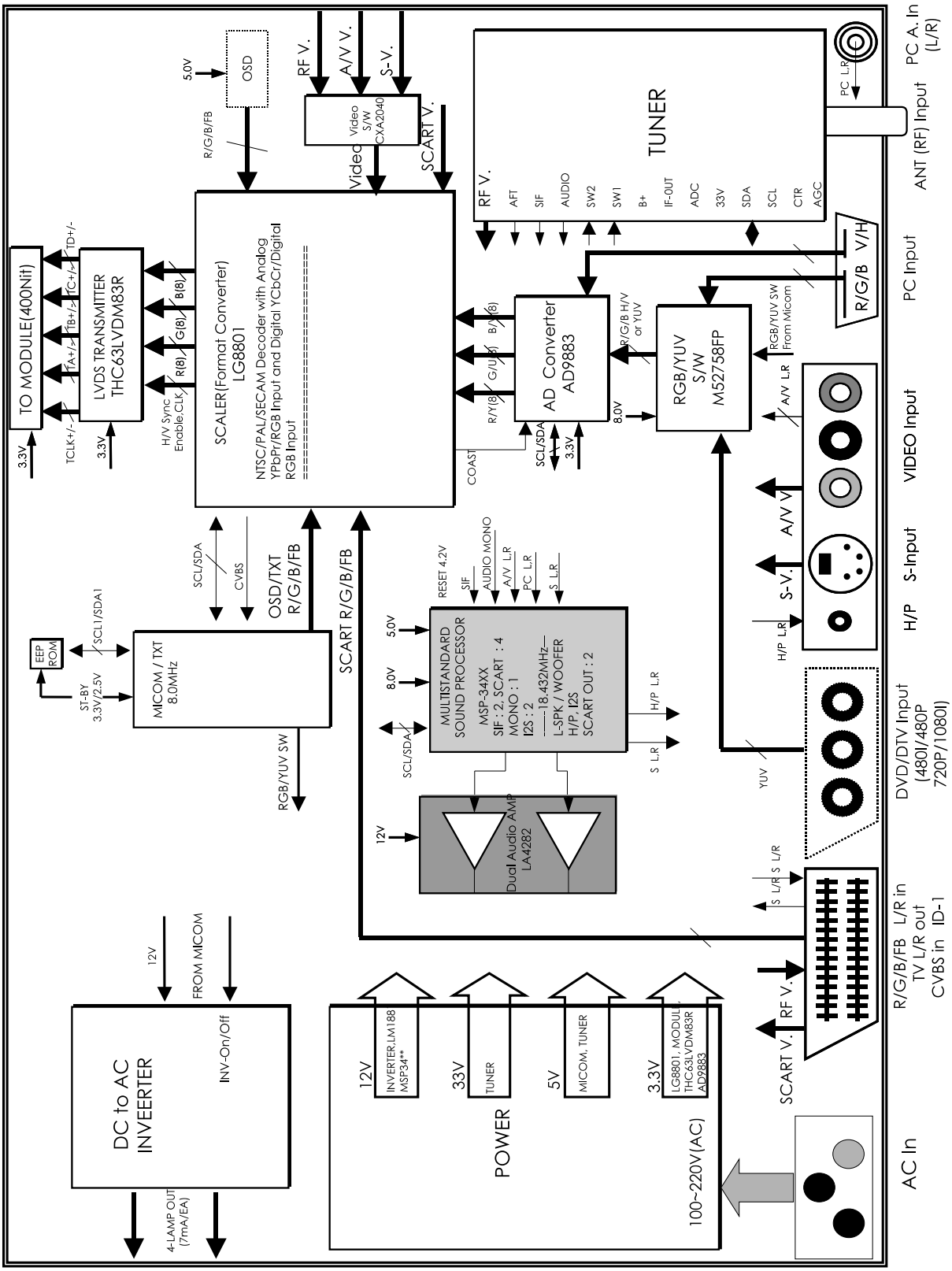
4. Position of Mode Adjustment

Timing of Mode Table * H[dot]/V[line]

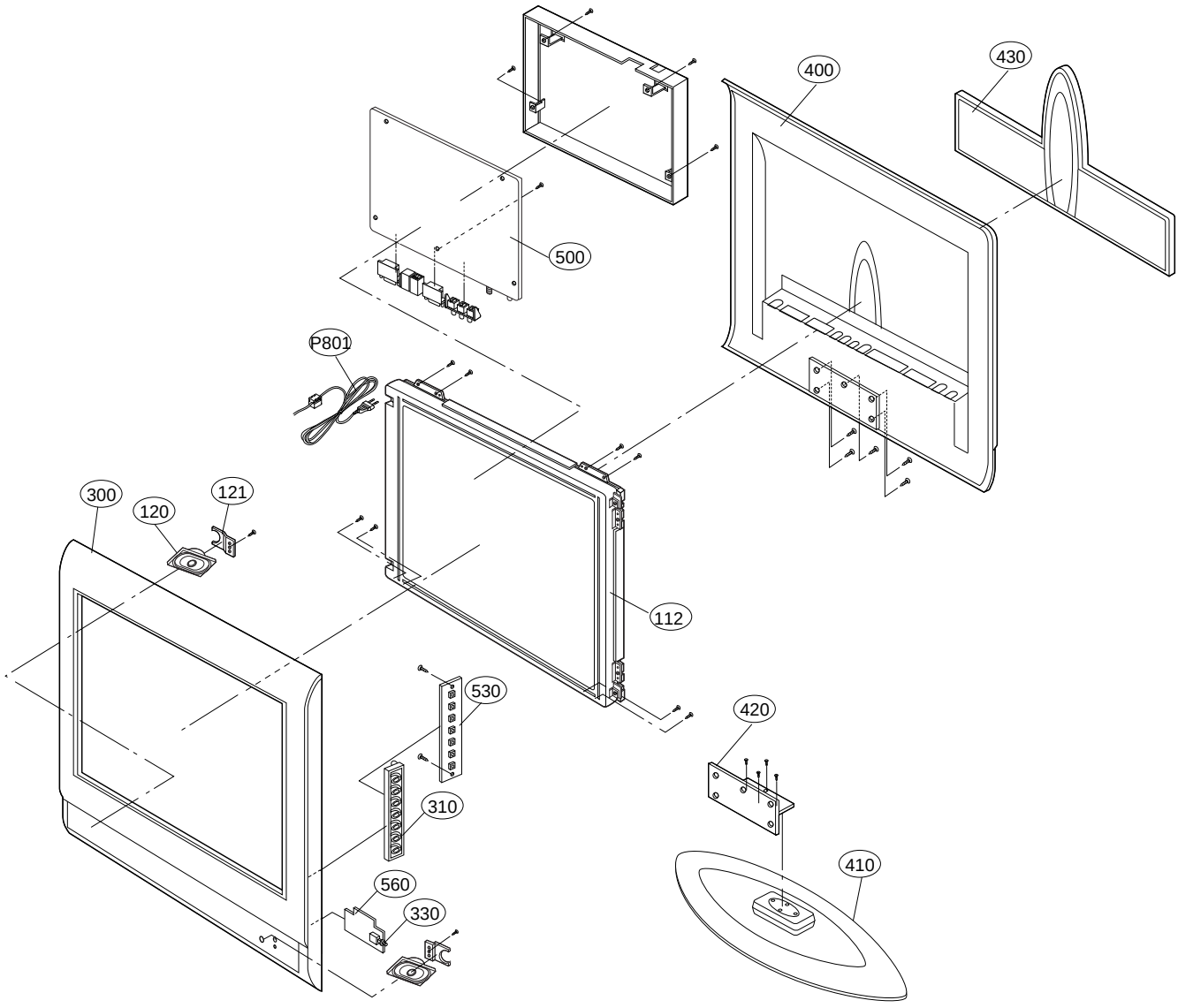
Mode	VGA-60	VGA-67	VGA-72	VGA-75	VGA-85	SVGA-56	SVGA-60	SVGA-72	SVGA-75
H_Total	800	864	832	840	832	1024	1056	1040	1056
H_Display	640	640	656	640	640	800	800	800	800
H_Blanking	160	224	176	200	192	224	256	240	256
H_Sync	96	64	40	64	56	72	128	120	80
H Polarity	NEG.	NEG.	NEG.	NEG.	NEG.	POS	POS	POS	POS
H_Bp	48	96	120	120	80	128	88	64	160
H_Fp	16	64	16	16	56	24	40	56	16
H-Freq[KHz]	31.469	35.0	37.861	37.5	43.269	35.156	37.879	48.077	46.875
/Clk[MHz]	25.175	30.24	31.5	31.5	36.0	36.0	40.0	50.0	49.5
V_Total	525	525	520	500	509	625	628	666	625
V_Display	480	480	496	480	480	600	600	600	600
V_Blanking	45	45	24	20	29	25	28	66	25
V_Sync	2	3	3	3	3	2	4	6	3
V Polarity	NEG	NEG	NEG	NEG	NEG	POS	POS	POS	POS
V_Bp	33	39	20	16	25	22	23	23	21
V_Fp	10	3	1	1	1	1	1	37	1

Mode	SVGA-85	XGA-60	XGA-70	XGA-75	MAC-75	VGA400-85
H_Total	1048	1344	1328	1312	1152	832
H_Display	800	1024	1024	1024	832	640
H_Blanking	248	320	304	288	320	192
H_Sync	64	136	136	96	64	64
H Polarity	POS	NEG	NEG	POS	NEG	NEG
H_Bp	152	136	144	176	224	96
H_Fp	32	160	24	16	32	32
H-Freq[KHz]	53.674	48.363	56.476	60.23	49.725	37.86
/Clk[MHz]	56.25	65.0	75.0	78.75	57.283	31.5
V_Total	631	806	806	800	667	445
V_Display	600	768	768	768	624	400
V_Blanking	31	38	38	32	43	45
V_Sync	3	6	6	3	3	3
V Polarity	POS	NEG	NEG	POS	NWG	POS
V_Bp	27	29	29	28	39	41
V_Fp	1	3	3	1	1	1

BLOCK DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
112	6304FLP006C	LCD MODULE,LC151X01-C3M2 LG PHILPS TFT COLOR NON
120	6400VA0017A	SPEAKER,T401SX-095K14 LG C&D 8 OHM 1.0/1.5W 81DB
121	4950V00067A	METAL,SUPPORTER EGI SPEAKER HOLDER
300	3091V00A15L	CABINET ASSEMBLY,NON ML012A FLATRON
310	5020V00552F	BUTTON,CONTROLABS, HF-380 7KEY #155
330	5020V00553D	BUTTON,POWER NON 1 KEY SET
400	3809V00A72A	BACK COVER ASSEMBLY,RZ-15LA32 1SCART 1PHONE ML-024A
410	4811V00015A	BRACKET ASSEMBLY STAND 15LA30 NON .
420	4950V00063B	METAL,SUPPORTER SUS HINGE FIXER
430	3581V00033A	DOOR ASSY
500	3141VMNB46A	CHASSIS ASSY,MAIN ML024A RZ-15LA32
	3141VMNB46B	CHASSIS ASSY,MAIN ML024A RZ-15LA32
530	6871VSMA12A	PWB ASSEMBLY,CTL ASSY
560	6871VSMN38C	PWB ASSEMBLY,POWER ML024A PAL
P801	6410VEH008A	POWER CORD,SP022+IS034 H05VV-F 3G
	6410VEH008C	POWER CORD,SP027+IS034 H05VV-F

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
	IC	
IC1	0IMCRTH001A	THC63LVDM83R THINE ELECTRONICS 56P
IC100	0IZZVC0047A	INFINEON 52PIN - MICOM PAL
IC101	0IAL241610B	AT24C16A-10PI-2.7 8PIN DIP ST EEPROM NON
IC102	0IFA752700A	KA75270Z 3 TP RE-SET IC MC-007
IC351	0IMCRFA010A	KA7809R, FAIRCHILD 2P D-PAK, R/TP
IC352	0ISO204000A	CXA2040AQ 32P,QFP BK IIC BUS VIDEO S/W
IC501	0IMCRTW001A	LG8801 TECHWELL 160PQFP TRAY
IC502	0ICTMMO005A	SC786109DWR2 MOTOROLA SOIC 16P
IC51	0ITK118100B	TK11840L 8P SOT23L R/TP DC-DC CONVERTER
IC52	0IMCRRH005A	UM6K1N ROHM 6P SOT363 R/TP 30V 0.1A
IC53	0IMCRRH005A	UM6K1N ROHM 6P SOT363 R/TP 30V 0.1A
IC601	0IMCRMN011D	MSP3410G QA B8 V3 MICRONAS 80P
IC602	0ISA428200A	LA4282 12S 2CHX10W AUDIO AMP
IC603	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VOLTAGE DETECTOR
IC604	0IMCRFA009A	KA78M08RTM, FAIRCHILD 2P D-PAK, R/TP
IC701	0IMCRFA017A	KA3883C FAIRCHILD 8 SOP R/TP SMPS CONTROLLER
IC702	0IMCRFA007A	KA431Z FAIRCHILD 3DIP SHUNT REGULATOR
IC703	0IMCRFA016A	KA78RH33 FAIRCHILD 2P D-PAK R/TP 800MA
IC704	0IKE780500P	KIA78L05BP(AT) 3P 5V,150MA
IC707	0IMCRKE006B	KIA278R33PI TO-220IS 4P ST 3.3V L0W
IC708	0IKE780500Q	KIA7805API 3P TO-220 ST REGULATOR 5V
IC709	0IKE780500Q	KIA7805API 3P TO-220 ST REGULATOR 5V
IC710	0IKE780500Q	KIA7805API 3P TO-220 ST REGULATOR 5V
IC801	0IMCRAD002A	AD9883A ANALOG DEVICE 80P TQFP R/TP
IC901	0IAL242110A	AT24C21-10SI-2.5 8P,SOP TP 1K EEPROM
PC1	0ILI817000G	LTV817M-VB 4P,DIP BK PHOTO COU
PC2	0ILI817000G	LTV817M-VB 4P,DIP BK PHOTO COU
Q101	0IFA270000A	2N7000TA TO-92, 3P TP LEVEL SHIFT 60V/0.2A
Q102	0IFA270000A	2N7000TA TO-92, 3P TP LEVEL SHIFT 60V/0.2A
Q54	0IMCRRH004A	UMY1N ROHM 5P SOT353 R/TP DUAL SWITCHING
	DIODE	
D100	0DD181009AB	DIODE,SWITCHING KDS181 TP KEC 85V 300MA
D51	0DD181009AB	DIODE,SWITCHING KDS181 TP KEC 85V 300MA
D52	0DD181009AB	DIODE,SWITCHING KDS181 TP KEC 85V 300MA
D53	0DD181009AB	DIODE,SWITCHING KDS181 TP KEC 85V 300MA
D54	0DD181009AB	DIODE,SWITCHING KDS181 TP KEC 85V 300MA
D55	0DRDI00028B	DIODE,RECTIFIERS B350A 35V 3A 100A NSEC 0.7MA
D56	0DRDI00028B	DIODE,RECTIFIERS B350A 35V 3A 100A NSEC 0.7MA
D57	0DD181009AB	DIODE,SWITCHING KDS181 TP KEC 85V 300MA
D601	0DD181009AB	DIODE,SWITCHING KDS181 TP KEC 85V 300MA
D602	0DD181009AB	DIODE,SWITCHING KDS181 TP KEC 85V 300MA
D701	0DB260000AA	DIODE,RECTIFIERS G2SBA60 BK G.I 600V 1.5A 60A 5UA
D702	0DD100009AM	DIODE,RECTIFIERS EU1ZV(1) TP SANKEN
D703	0DD140009AA	DIODE,RECTIFIERS EK14 V(1) 40V 1.5A 40A 0.2US 5MA
D703	0DR060009AA	DIODE,RECTIFIERS TVR06J TP DO41 600V 0.6A
D704	0DD100009AM	DIODE,RECTIFIERS EU1ZV(1) TP SANKEN

LOCA. NO	PART NO	DESCRIPTION
D706	0DR060009AA	DIODE,RECTIFIERS TVR06J TP DO41 600V 0.6A
D707	0DRSD00091A	DIODE,RECTIFIERS SF20JC10 100V 20A 200A .SEC 0.7MA
D709	0DRSD00091A	DIODE,RECTIFIERS SF20JC10 100V 20A 200A .SEC 0.7MA
LED1	0DL200000CA	LED SAM5670(DL-2LRG) BK Y-GREEN -
ZD202	0DZRM00178A	DIODE,ZENERS UDZS TE-17 5.1B ROHM
ZD203	0DZRM00178A	DIODE,ZENERS UDZS TE-17 5.1B ROHM
ZD400	0DZ330009BA	DIODE,ZENER HZT33(TP) HITACHI
ZD701	0DZ180009AG	DIODE,ZENERS MTZJ18B TP ROHM-K
ZD702	0DZ150009AD	DIODE,ZENERS MTZJ15B TP ROHM-K
ZD703	0DZ820009AH	DIODE,ZENERS MTZJ8.2B TP ROHM-K
	TRANSISTOR	
IC2	0TF492509AA	FET,SI4925DY TP TEMIC 30V 6.1A SO-8
IC705	0TF492509AA	FET,SI4925DY TP TEMIC 30V 6.1A SO-8
IC706	0TF492509AA	FET,SI4925DY TP TEMIC 30V 6.1A SO-8
Q1	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q100	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q1101	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q1102	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q1103	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q200	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q353	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q353	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q402	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q403	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q404	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q404	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q405	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q405	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q406	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q407	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q501	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q502	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q51	0TRKE80021A	TR,KTC5103D KEC R/TP D-PAK 60V 5A
Q510	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q52	0TRKE80021A	TR,KTC5103D KEC R/TP D-PAK 60V 5A
Q53	0TFVI80034A	TR,SUD45P03-15 VISHAY R/TP TO252 30V 13A
Q55	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q551	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q56	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q57	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q602	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q603	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q651	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q701	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q702	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q703	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q704	0TFFC10007A	TR,FQPF12N60 FAIRCHILD ST TO220 600V 10.5A
Q705	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;	CC, CX, CK, CN : Ceramic CQ : Polyestor CE : Electrolytic	RD : Carbon Film RS : Metal Oxide Film RN : Metal Film RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
Q801	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q802	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
CAPACITOR		
C10	0CE227DF618	220UF STD 16V M FL TP5
C101	0CE107BF618	100UF KME 16V M FL TP5
C113	0CE107BF618	100UF KME 16V M FL TP5
C128	0CE227BH618	220UF KME 25V M FL TP5
C13	0CE227DF618	220UF STD 16V M FL TP5
C209	0CE476DF618	47UF STD 16V M FL TP5
C211	0CE106DF618	10UF STD 16V M FL TP5
C212	0CE227DD618	220UF STD 10V M FL TP5
C219	0CE226DF618	22UF STD 16V M FL TP5
C220	0CE226DF618	22UF STD 16V M FL TP5
C277	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C289	0CE104DK618	0.1000UF STD 50V M FL TP5
C351	0CE227DF618	220UF STD 16V M FL TP5
C351	0CE227DF618	220UF STD 16V M FL TP5
C353	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C353	0CE106DF618	10UF STD 16V M FL TP5
C354	0CE476DF618	47UF STD 16V M FL TP5
C356	0CE106DF618	10UF STD 16V M FL TP5
C357	0CE106DF618	10UF STD 16V M FL TP5
C362	0CE107DF618	100UF STD 16V M FL TP5
C362	0CE107DF618	100UF STD 16V M FL TP5
C364	0CE336DF618	33UF STD 16V M FL TP5
C380	0CE105DK618	1UF STD 50V M FL TP5
C381	0CE106DF618	10UF STD 16V M FL TP5
C383	0CE106DF618	10UF STD 16V M FL TP5
C403	0CE476DH618	47UF STD 25V 20% FL TP 5
C404	0CE108DD618	1000UF STD 10V M FL TP5
C408	0CE106DK618	10UF STD 50V M FL TP5
C410	0CE227DF618	220UF STD 16V M FL TP5
C412	0CE105DK618	1UF STD 50V M FL TP5
C499	0CE476DF618	47UF STD 16V M FL TP5
C501	0CE107DF618	100UF STD 16V M FL TP5
C51	0CF2241N5AA	0.22UF D 100V 10% MPS(105μμ) TP 7.5
C523	0CE104DK618	0.1000UF STD 50V M FL TP5
C526	0CE107DF618	100UF STD 16V M FL TP5
C536	0CH5151K416	150PF 50V J NP0 2012 R/TP
C541	0CE107DF618	100UF STD 16V M FL TP5
C55	0CF2241N5AA	0.22UF D 100V 10% MPS(105μμ) TP 7.5
C581	0CE107DF618	100UF STD 16V M FL TP5
C60	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C601	0CE477BF618	470UF KME 16V M FL TP5
C602	0CE477BF618	470UF KME 16V M FL TP5
C605	0CE107BF618	100UF KME 16V M FL TP5
C613	0CE106DF618	10UF STD 16V M FL TP5
C614	0CE106DF618	10UF STD 16V M FL TP5
C616	0CE107DF618	100UF STD 16V M FL TP5
C617	0CE107BF618	100UF KME 16V M FL TP5
C62	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)

LOCA. NO	PART NO	DESCRIPTION
C620	0CE335DK618	3.3UF STD 50V 20% FL TP 5
C621	0CE107BF618	100UF KME 16V M FL TP5
C624	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C625	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C629	0CE107DF618	100UF STD 16V M FL TP5
C633	0CE107DF618	100UF STD 16V M FL TP5
C643	0CE476BF618	47UF KME TYPE 16V 20% FL TP 5
C646	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C647	0CE225BK618	2.2UF KME TYPE 50V 20% FL TP 5
C647	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C648	0CQ1031N509	0.01U 100V K POLY TP
C649	0CQ1031N509	0.01U 100V K POLY TP
C65	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
C651	0CE107BH618	100UF KME 25V M FL TP5
C652	0CE107DF618	100UF STD 16V M FL TP5
C652	0CE107BF618	100UF KME 16V M FL TP5
C654	0CE476BF618	47UF KME TYPE 16V 20% FL TP 5
C67	0CE337ZF638	330UF SEP 16V 20% FM5 TP 5
C67	0CE227BH618	220UF KME 25V M FL TP5
C68	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
C69	0CE107BH618	100UF KME 25V M FL TP5
C700	181-091D	DEHR33A102KN2A 1000PF 1KV 10%,-10%
C701	0CF474285B0	0.47UF S 275V 10% PCX2 337 BULK
C702	0CF334285B0	0.33UF S 275V 10% PCX2 337 BULK
C703	181-120N	1000PF 4KV M E FMTW LEAD4.5
C704	181-120N	1000PF 4KV M E FMTW LEAD4.5
C706	0CE476BK618	47UF KME 50V M FL TP5
C706	0CE4772J618	470UF KMF 35V 20% TP 5 FL
C707	0CE1272U610	120UF KMF 400V 20% BULK FL
C708	181-091D	DEHR33A102KN2A 1000PF 1KV 10%,-10%
C709	181-091U	R 220PF 2KV 10%,-10% R/TP TP7.5
C717	181-091D	DEHR33A102KN2A 1000PF 1KV 10%,-10%
C718	181-091D	DEHR33A102KN2A 1000PF 1KV 10%,-10%
C719	0CE227DK618	220UF STD 50V M FL TP5
C720	181-091D	DEHR33A102KN2A 1000PF 1KV 10%,-10%
C721	0CE4772J618	470UF KMF 35V 20% TP 5 FL
C722	0CE477BF618	470UF KME 16V M FL TP5
C723	0CE477BF618	470UF KME 16V M FL TP5
C725	0CE4772J618	470UF KMF 35V 20% TP 5 FL
C726	0CE477BF618	470UF KME 16V M FL TP5
C730	0CE4772J618	470UF KMF 35V 20% TP 5 FL
C731	0CE477BF618	470UF KME 16V M FL TP5
C732	0CE4772J618	470UF KMF 35V 20% TP 5 FL
C733	181-120K	2200PF 4KV M E FMTW LEAD 4.5
C734	0CE4772J618	470UF KMF 35V 20% TP 5 FL
C735	0CE477BF618	470UF KME 16V M FL TP5
C736	0CE4772J618	470UF KMF 35V 20% TP 5 FL
C777	181-091D	DEHR33A102KN2A 1000PF 1KV 10%,-10%
C799	0CE107BF618	100UF KME 16V M FL TP5
C809	0CH2822K516	8200PF 50V K B(5YP) 2012 R/TP
C810	0CK823DK56A	82000PF 2012 50V 10% R/TP X7R
C811	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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LOCA. NO	PART NO	DESCRIPTION
C819	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
C820	0CH2473K516	47000P 50V K B 2.0X1.25 R/TP
C821	0CH2473K516	47000P 50V K B 2.0X1.25 R/TP
C823	0CH2473K516	47000P 50V K B 2.0X1.25 R/TP
C827	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
C832	0CE107DF618	100UF STD 16V M FL TP5
C877	0CH5180K416	18PF 50V J NP0 2012 R/TP
COIL & TRANSFORMER		
L401	0LA0272K139	INDUCTOR,AXIAL LEAD 27UH K 4X10.5 TP
L51	6140VR0004A	COIL,ENERGY RECOVERY TOKO B953AS-330M=P3, 33UH
L52	6140VR0004A	COIL,ENERGY RECOVERY TOKO B953AS-330M=P3, 33UH
T51	6170VH0001A	TRANSFORMER,INVERTER 969HG-K003 8.985UH
T52	6170VH0001A	TRANSFORMER,INVERTER 969HG-K003 8.985UH
T701	6170VMCA47A	TRANSFORMER,SMPS EER3016 510UH
CONNECTOR		
P1	6602V12005A	CONNECTOR,1.25MM 20P 12507WR-20
P100	366-932E	CONNECTOR,2.5MM 6P GIL-G LG CABLE
P101	6602V20005L	CONNECTOR,2.0MM 12P GIL-S LG CABLE STRAIGHT
P1101	6631V20014E	CONNECTOR, 12P 2.0MM 300MM H-B
P1101A	366-922F	CONNECTOR,2.5MM 7P GIL-G LG CABLE
P1102	387-A07B	CONNECTOR,7P 2.5MM 150MM H-B
P51	6630VV00102	CONNECTOR,35001WR YEONHO 2P 3.5MM
P52	6630VV00102	CONNECTOR,35001WR YEONHO 2P 3.5MM
P53	6630VV00102	CONNECTOR,35001WR YEONHO 2P 3.5MM
P54	6630VV00102	CONNECTOR,35001WR YEONHO 2P 3.5MM
P601	366-932B	CONNECTOR,2.5MM 3P GIL-G LG CABLE
P602	366-932C	CONNECTOR,2.5MM 4P GIL-G LG CABLE
P900	6630G15E215	CONNECTOR,KSD 15P 2.29MM KCN-DS-3-0054 D227
RESISTOR		
FR704	0RP0020J809	0.02 OHM 1 W 20% TA52
L502	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%
L503	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%
L504	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%
L505	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%
L506	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%
L507	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%
L518	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%
R200	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R201	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R51	0RS6800J607	680 OHM 1 W 5.00% TA62
R54	0RS6800J607	680 OHM 1 W 5.00% TA62
R69	0RN1302F409	13K OHM 1/6 W 1.00% TA52
R70	0RN4701F409	4.7K OHM 1/6 W 1.00% TA52
R701	0RS5602K619	56K OHM 2 W 5.00% TR
R702	0RKZVTA001C	8.2M OHM 1/2 W 5% TA52
R703	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52
R704	0RS5602K619	56K OHM 2 W 5.00% TR
R705	0RS5602K619	56K OHM 2 W 5.00% TR
R707	0RD3303H609	330K OHM 1/2 W 5.00% TA52

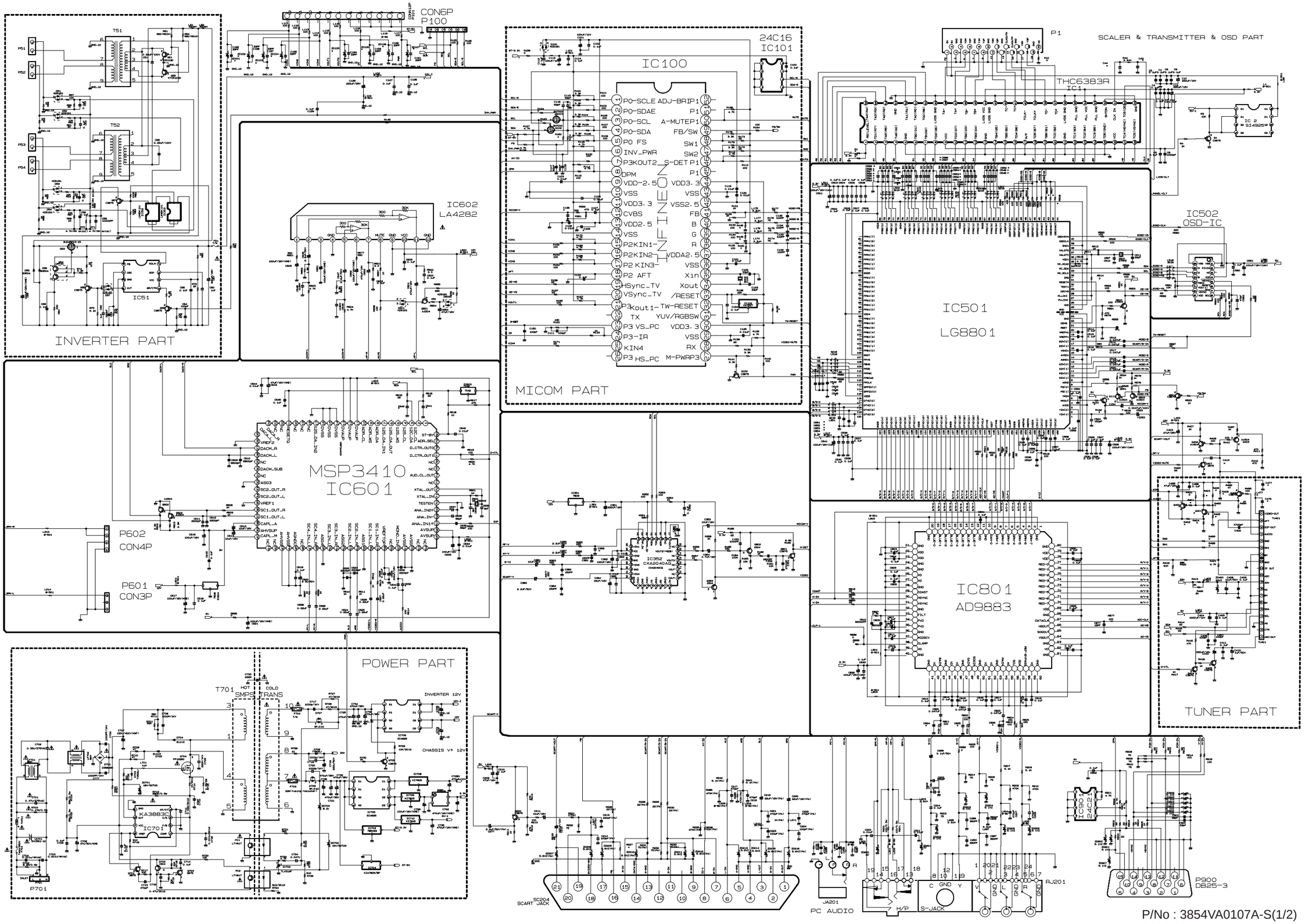
LOCA. NO	PART NO	DESCRIPTION
R71	0RN4701F409	4.7K OHM 1/6 W 1.00% TA52
R711	0RS5602K619	56K OHM 2 W 5.00% TR
R712	0RD6803H609	680K OHM 1/2 W 5.00% TA52
R715	180-A01R	2 W RW ROUND G 0.39 TA31(63)
R727	0RD0472H609	47 OHM 1/2 W 5.00% TA52
R728	0RD0472H609	47 OHM 1/2 W 5.00% TA52
SWITCH		
SW1101	140-275B	SWITCH,PUSH JDPB21NA EVLAND NON 30V 0.3A
SW1101	140-313A	SWITCH,TACT 2LEAD 100G(TA) LG C&D NON 5V
SW1102	140-313A	SWITCH,TACT 2LEAD 100G(TA) LG C&D NON 5V
SW1103	140-313A	SWITCH,TACT 2LEAD 100G(TA) LG C&D NON 5V
SW1104	140-313A	SWITCH,TACT 2LEAD 100G(TA) LG C&D NON 5V
SW1105	140-313A	SWITCH,TACT 2LEAD 100G(TA) LG C&D NON 5V
SW1106	140-313A	SWITCH,TACT 2LEAD 100G(TA) LG C&D NON 5V
SW1107	140-313A	SWITCH,TACT 2LEAD 100G(TA) LG C&D NON 5V
CRYSTAL & FILTER		
L1	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L101	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L102	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L119	6210TCE001A	FILTER,HB-1S2012-080JT CERATEC 2012MM
L200	6210TCE001A	FILTER,HB-1S2012-080JT CERATEC 2012MM
L201	6210TCE001A	FILTER,HB-1S2012-080JT CERATEC 2012MM
L202	6210TCE001A	FILTER,HB-1S2012-080JT CERATEC 2012MM
L204	6210TCE001A	FILTER,HB-1S2012-080JT CERATEC 2012MM
L205	6210TCE001A	FILTER,HB-1S2012-080JT CERATEC 2012MM
L206	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L207	6200JB8010L	FILTER,MLB-201209-1000L-N2 1000OHM 350MA
L208	6210TCE001A	FILTER,HB-1S2012-080JT CERATEC 2012MM
L209	6210TCE001A	FILTER,HB-1S2012-080JT CERATEC 2012MM
L210	6210TCE001A	FILTER,HB-1S2012-080JT CERATEC 2012MM
L211	6210TCE001A	FILTER,HB-1S2012-080JT CERATEC 2012MM
L213	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L214	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L298	6210TCE001A	FILTER,HB-1S2012-080JT CERATEC 2012MM
L299	6210TCE001A	FILTER,HB-1S2012-080JT CERATEC 2012MM
L351	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L351	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L400	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L402	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L501	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L515	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L516	6210VC0004A	FILTER,BK3216 4S600 TAIYOYUDEN 3.2X1.6X0.8MM
L517	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L580	6210TCE001A	FILTER,HB-1S2012-080JT CERATEC 2012MM
L600	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L601	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L602	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L603	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L701	125-022K	FILTER,FERRITE 1UH TAPING
L801	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM

LOCA. NO	PART NO	DESCRIPTION
L802	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L803	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L99	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
LF701	6200JB8010U	FILTER,OR 14*7*7.5H SMC BK 6.0MH-11.0MH
LF702	6200JB8010U	FILTER,OR 14*7*7.5H SMC BK 6.0MH-11.0MH
R226	6200JB8010L	FILTER,MLB-201209-1000L-N2 1000OHM 350MA
R228	6200JB8010L	FILTER,MLB-201209-1000L-N2 1000OHM 350MA
R229	6200JB8010L	FILTER,MLB-201209-1000L-N2 1000OHM 350MA
R230	6200JB8010L	FILTER,MLB-201209-1000L-N2 1000OHM 350MA
Z100	156-A01L	RESONATOR,CRYSTAL HC49U 6.000MHZ 30PPM 16PF
Z500	156-A02X	RESONATOR,CRYSTAL HC49U 27.000MHZ 25PPM 20PF
Z600	156-A02M	RESONATOR,CRYSTAL HC49U 18.432MHZ 30PPM 10PF
MISCELLANEOUS		
	5006V00001A	CAP,MAIN2 . V-0 GRADE VARISTOR COVER CAP
	6851V00004D	CABLE ASSY,AUDIO TO AUDIO 2000MM(WHITE)
	6866VA9001A	CONNECTO),D-SUB 2990-9C,AT,L1830,COOL GRAY 3C
F701	131-098B	FUSE,SLOW BLOW 4000MA 250 V 5.2X20
JA201	6612VCH003B	JACK,PHONE PEJ012C H=6.5 STEREO 1P W/O S/W WHITE
P701	6620VZ0002A	SOCKET,DRAWING IS7007 I-SHENG AC SOCKET
PA1101	6726VV0006D	REMOTE CONTROLLER RECEIVER 38.0KHZ
RJ201	6613V00008F	JACK ASSY,PMJ014F E/P(ST)+S-VHS+3P H6.5 GOLD COLOR
SC204	381-091B	JACK,SCART S-091B UGCOM SCART 21 PIN
TH701	163-048D	THERMISTOR,KL15L2R5 SSANSHIN +/- 15% 125V
TU401	6700PF0002A	TUNER,TAFH-S321D LG PAL FS 4SYS
VA701	164-003K	VARISTOR,SVC621D-14A ILJIN 620V 0% UL/CSA/VDE BK
ACCESSORIES		
A1	3828VA0381B	MANUAL,OWNERS ML024A DG/BN LG GE/FR/NE/EN 082R
A1	3828VA0381H	MANUAL,OWNERS ML024A STUH/E2000 LG GE/FR
A2	6710V00082R	REMOTE CONTROLLER ML024A TXT RZ-15LA32 NEC CODE

LOCA. NO	PART NO	DESCRIPTION

SVC. SHEET : 3854VA0107A-S

CIRCUIT DIAGARM FOR ML024A CHASSIS



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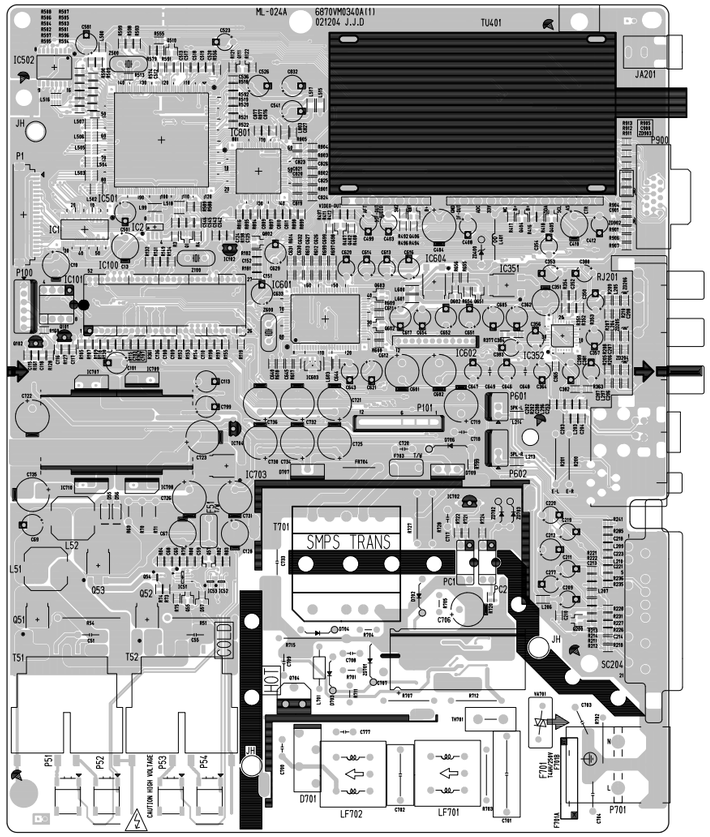
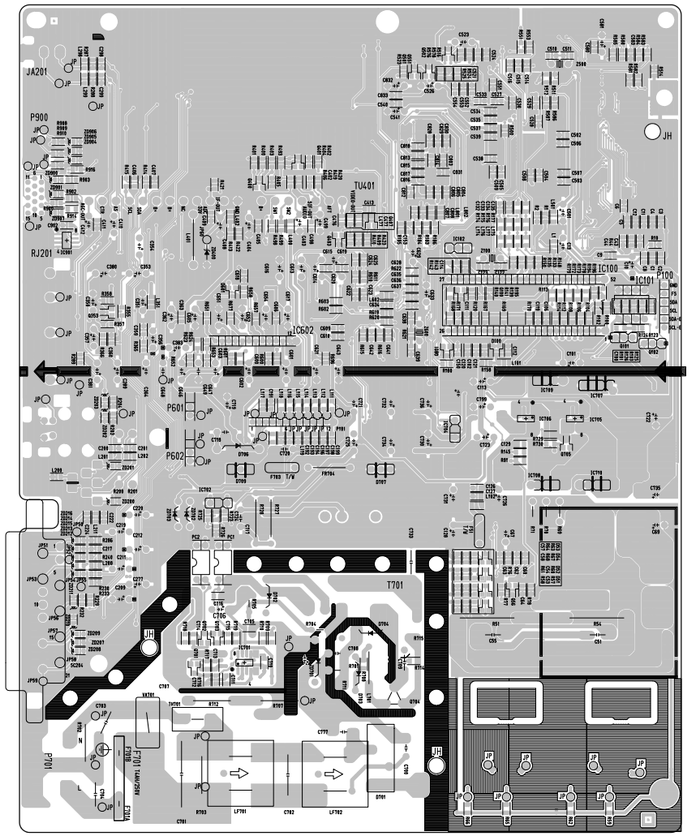
2002.12.11

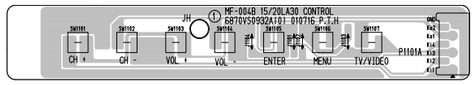
MAIN(TOP)



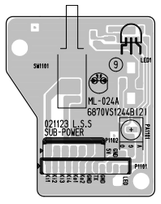
MAIN(BOTTOM)



CONTROL



POWER



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